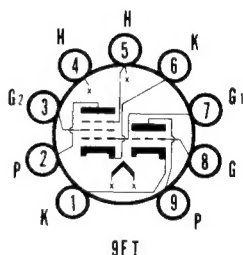


SYLVANIA TYPE 6CH8 **MEDIUM MU TRIODE** **SHARP CUTOFF PENTODE**



MECHANICAL DATA

Bulb.....	T-6½
Base.....	E9-1, Small Button 9-Pin
Outline.....	6-2
Basing.....	9FT
Cathode.....	Coated Unipotential
Mounting Position.....	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage.....	6.3 Volts
Heater Current.....	450 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	
Total D C and Peak.....	200 Volts Max.
Heater Positive with Respect to Cathode	
D C.....	100 Volts Max.
Total D C and Peak.....	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Triode Section	
Grid to Plate.....	1.6 μmf
Grid to (k+h+g3+I.S.).....	1.9 μmf
Plate to (k+h+g3+I.S.).....	1.6 μmf
Pentode Section	
Grid No. 1 to Plate.....	.025 μmf Max.
Grid No. 1 to (k+h+g3+g2+I.S.).....	7.0 μmf
Plate to (k+h+g3+g2+I.S.).....	2.25 μmf
Coupling	
Triode Grid to Pentode Plate.....	0.005 μmf
Pentode Grid No. 1 to Triode Plate.....	0.02 μmf
Pentode Plate to Triode Plate.....	0.04 μmf

6CH8 (Cont'd)

MAXIMUM RATINGS (Design Center Values)

	Triode Section	Pentode Section
Plate Voltage.....	300	300 Volts
Grid No. 3 Voltage.....		0 Volts
Grid No. 2 Supply Voltage.....		300 Volts
Grid No. 2 Voltage.....	See 6AM8 Rating Chart	
Positive Grid No. 1 Voltage.....	0	0 Volts
Plate Dissipation.....	2.6	2.0 Watts
Grid No. 2 Input:		
For Grid No. 2 Voltages up to 150 Volts....	0.5	0.5 Watt
For Grid No. 2 Voltages Between 150 and 300 Volts.....	See 6AM8 Rating Chart	
Grid No. 1 Circuit Resistance ¹		
Fixed Bias.....	0.5	0.25 Megohm
Cathode Bias.....	1.0	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Supply Voltage.....	200	200 Volts
Grid No. 3 Voltage.....		0 Volt
Grid No. 2 Supply Voltage.....		150 Volts
Grid No. 1 Voltage.....	-6	Volts
Cathode Bias Resistor.....		180 Ohms
Plate Current.....	13	9.5 Ma
Grid No. 2 Current.....		2.8 Ma
Transconductance.....	3300	6200 μ mhos
Amplification Factor.....	19	
Plate Resistance (approx.).....	5750	300,000 Ohms
Grid No. 1 Voltage for $I_b = 10 \mu$ a (approx.)....	-19	-8 Volts

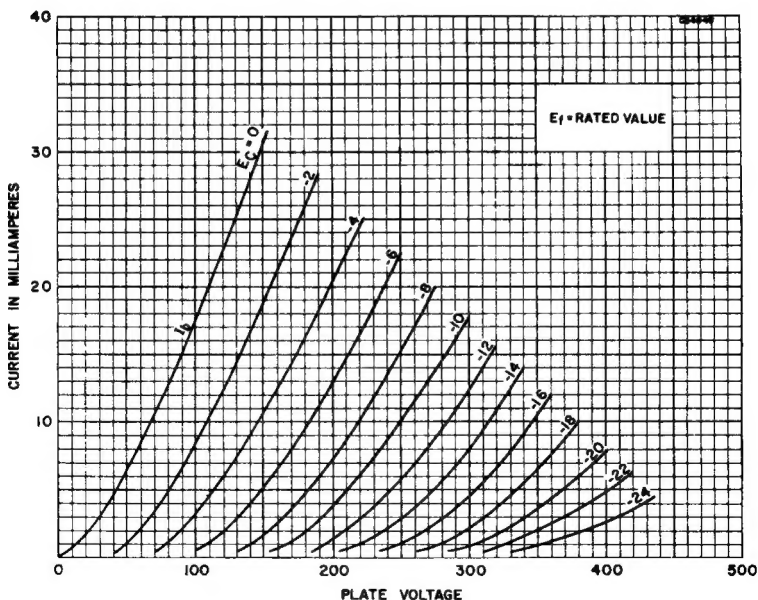
NOTE:

1. If either section is operating at maximum rated conditions, the Grid No. 1 circuit resistance for both sections should not exceed the stated values.

APPLICATION

The Sylvania Type 6CH8 has a medium μ triode and sharp cutoff pentode contained in one envelope. The pentode section may be used as a reactance tube, IF, video or AGC amplifier. The triode section may be used as a low frequency oscillator, sync clipper, sync separator or phase splitter.

AVERAGE PLATE CHARACTERISTICS (TRIODE SECTION)



6CH8 (Cont'd)

AVERAGE PLATE CHARACTERISTICS (PENTODE SECTION)

